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planned and successful crusade against the traditional insect of New Jersey, the mosquito. His mosquito work was based upon original observations which introduced revolutionary ideas into culicidology and his work on the salt marsh mosquitoes which fly inland from their breeding-places for many miles came as a startling revelation to the "old foggy" students of mosquitoes, of whom the writer of this notice was one. Further than that, Doctor Smith so impressed his views upon the legislature and the governor of his state that his mosquito work was supported by large appropriations.

Through all this period of economic work, Smith was constantly working upon other aspects of entomology. Every few months would appear a systematic paper upon that difficult and complex group, the family *Nocuidæ*, and in the course of his New Jersey career he published two enormous catalogues of the insects of New Jersey.

He was also the author of two admirable books, "Economic Entomology for the Farmer and Fruit Grower," Lippincott, 1896, and "Our Insect Friends and Foes," Lippincott, 1909. In addition to the position of entomologist of the New Jersey State Agricultural Experiment Station, he was professor of entomology in Rutgers College and state entomologist of New Jersey. He was president of the Association of Economic Entomologists in 1896 and president of the Entomological Society of America in 1910. In 1891 he was given the honorary degree of Sc.D. by Rutgers College.

While not a pioneer in entomology in the United States, Smith was a leader in the second generation of men who have helped to make American economic entomology assume the first rank in the world. L. O. HOWARD

SCIENTIFIC NOTES AND NEWS

PROFESSOR ABBOTT LAWRENCE ROTCH has bequeathed to Harvard University the Blue Hill Meteorological Observatory, which he established in 1885 and had directed up to the time of his death. He has further provided an endowment fund of \$50,000.

THE will of Lord Lister disposes of property valued at £66,166. In addition to a number of family bequests he left £10,000 each to the Royal Society, King Edward's Hospital Fund, King's College Hospital and the North London and University College Hospital. He stated that he did not wish that his name should be "in any way associated with these sums in the future." He also left £20,000 to the Lister Institute of Preventive Medicine, and requested his nephews, Mr. Rickman John Godlee and Mr. Arthur Hugh Lister, to arrange his scientific manuscripts and sketches, destroying or disposing of such as were of no permanent scientific interest. He left his manuscripts and sketches when so arranged to the Royal College of Surgeons, England. In the bequest of his Orders and medals to the Edinburgh University, Lord Lister stated: "I expressly declare that it is my intention that the university authorities for the time being shall be perfectly at liberty to dispose of all or any part of the gift—for example, by having the medals melted down or the diplomas or other writings destroyed—at any time and in any manner that may seem to them desirable."

DR. IRA REMSEN has tendered his resignation as president of the Johns Hopkins University. He will remain professor of chemistry, which he has been since the opening of the university in 1876. Dr. Remsen's letter of resignation in part reads as follows: "For some time past it has seemed best to me that I should retire from the presidency of the university, but those whom I have consulted have urged me to postpone action until certain important things have been accomplished. This has now been done and I accordingly tender my resignation to take effect at the end of the present academic year. I have held the position for eleven years. This covers a fairly well-defined period in the history of the university, a period of steady growth and especially of preparation for a new era, which while maintaining and strengthening the old ideals and high standards of the university, will lead to larger and in some directions new

fields of activity and usefulness, if properly administered. We are face to face with new problems which will require wise consideration for many years to come. It is not to be expected that I shall be able to guide the policies which are to be inaugurated for a sufficient length of time to insure their ultimate success. I, therefore, feel that they should be intrusted to one having a reasonable expectation of long term of service.

THE Elisha Kent Kane Medal of the Geographical Society of Philadelphia has been awarded this year to Professor Wm. Morris Davis, of Harvard University.

THE Longstaff Medal of the Chemical Society, London, has been presented to Dr. H. Brereton Baker, F.R.S.

THE Turin Academy of Sciences has awarded the Vallauri prize of £800 for contributions to the progress of physics in the period of 1907-1910 to Professor A. Righi and Professor J. Perrin.

THE Royal Geographical Society has made its awards as follows: The Victoria medal to Sir George Darwin, of Cambridge University; the founders medal to Mr. Charles Montague Doughty, known for his explorations of Arabia; the patrons medal to Mr. W. Caruthers, who has conducted expeditions in Turkestan and Arabia; the Murchison bequest to Captain W. C. Macfie, R.E., for his topographical survey of Uganda; the Gill memorial to Captain F. M. Bailey, who has made explorations in China and Thibet. The Cuthbert Peek fund to Mr. Cecil Clementi, who has traveled extensively in central Asia; the Black bequest to Mr. L. A. Wallace, who has made surveys in Rhodesia.

PROFESSOR E. METCHNIKOFF, assistant director of the Pasteur Institute at Paris, has been elected foreign associate of the French Academy of Sciences, in succession to Sir Joseph Hooker.

SIR DAVID GILL, K.C.B., F.R.S., has succeeded Lord Cromer as president of the Research Defence Society; Lord Cromer, Mr. Balfour, Sir Edward Elgar, O.M., Mr. Rud-

yard Kipling and Lord Rayleigh, O.M., have consented to be vice-presidents of the society.

MR. C. E. ADAMS has been appointed government astronomer for the dominion of New Zealand.

MR. HARLAN I. SMITH has been elected honorary curator of archeology in the American Museum of Natural History.

PROFESSOR J. C. ARTHUR and Dr. Frank D. Kern, of Purdue University, are spending a few days with Professor F. E. Lloyd, at the Alabama Polytechnic Institute, making it the center of field operations in the study of the *Uredineæ*, with the especial purpose of identifying the at present unknown alternate hosts of certain species.

DR. W. H. WELCH, of the Johns Hopkins University, delivered the convocation address before the students of the University of Wisconsin on April 12.

At a meeting of the Southern California Academy of Science on April 6, Dr. David Starr Jordan, president of Stanford University, gave an address on "Eugenics."

THE Norman W. Harris lectures of Northwestern University will be given by Dr. Milton J. Rosenau, professor of preventive medicine and hygiene in Harvard University. The lectures will be delivered from April 15 to 20, the general subject being "Milk and its Relation to Public Health." The successive lectures deal with "Dirty Milk," "Diseases Spread by Milk," "Clean Milk," "Pasteurization" and "From Cow to Consumer."

MRS. CHRISTINE LADD FRANKLIN has given three university lectures on color vision before the department of psychology of Columbia University, as follows:

March 25—"The Theory of Color Theories—The Color Triangle and the Color Square—The Facts inconsistent with the Hering Theory."

March 27—"The Young-Helmholtz Theory in its Latest Form—its Indispensableness and its Inadequacy."

March 29—"The Recent Views on Color—Brunner, Pauli, Bernstein, Schenck—The Development Theory of Color."

DR. D. T. MACDOUGAL gave a lecture on the "Physical and Biological Aspects of American Deserts" to the members of the Colonial Institute, Geographical Society and Natural Science Society of Hamburg on March 23.

DR. R. M. PEARCE, professor of research medicine at the University of Pennsylvania, will deliver at the Syracuse Medical School the annual Alpha Omega Alpha address of the Gamma of New York Chapter. The title of the address is "Medical Education." Dr. Pearce will be the guest of honor of members of the fraternity at their annual dinner at the Onondaga.

DR. W. A. EVANS, sanitary expert of the Chicago *Tribune*, has given three lectures at the University of Illinois on health topics. Dr. Evans aided in the establishment several months ago of the Champaign County Anti-tuberculosis Health League which is now making a sanitary survey of the county and has an employed inspector, Dr. Carrie Noble White.

PROFESSOR IRVING FISHER, of Yale University, lectured before the undergraduates at Oberlin College on April 4 on "Some Aspects of the Modern Public Health Movement." Dr. Fisher explained the significance of the International Health Exposition at Dresden, and devoted a large part of his address to emphasizing the value of eugenics. He called particular attention to the scientific methods employed in Germany and in Sweden to guard against the spread of tuberculosis and typhoid fever, and gave a brief analysis of the statistical treatment of the health problem in the United States, urging the great need for more thorough registration of births, deaths and the general care of vital statistics by scientific methods.

THE Academy of Natural Sciences of Philadelphia, at its meeting of April 2, adopted the following minute:

The Academy of Natural Sciences of Philadelphia has heard with deep regret of the death of Professor Thomas Harrison Montgomery, Jr., on March 19, 1912. Professor Montgomery was a grandson of Samuel George Morton, president of this academy from 1849 to 1851, widely known for

his collection and study of human craniology. To that ancestor we may trace Montgomery's taste for natural history which led him to study zoology in the University of Berlin (where he received the Ph.D. in 1894) and to fill positions of instruction and research in the Wagner Institute, the Wistar Institute, the Woods Hole Marine Biological Laboratory and the Universities of Texas and of Pennsylvania. He was elected a member of the academy February 23, 1897. He served on the Committee on Instruction and Lectures in 1903 and on the Committee on Accounts from 1909. He was the first to respond to the invitation to contribute to the Centenary Memorial Volume and his memoir on Human Spermatogenesis was the last paper which he completed, although he did not live to read it at the anniversary meeting. Barely more than thirty-nine years of age when he died, he would have been justified in a feeling of pride in what he had accomplished. He had made fruitful suggestions on the mechanism of inheritance, based on his studies of minute details of the structure of the germ cells; he had investigated the anatomy of the unsegmented worms, rotifers and spiders; he had made known many interesting habits of spiders and of birds; his breadth of outlook and of zoological knowledge was displayed in his book on the "Analysis of Racial Descent in Animals." From all that he had done we rightly expected much to come from his further researches and our sorrow at his departure is made keener by his fulness of promise.

MR. GUSTAV POLLAK is preparing a biography of Michael Heilprin and his sons, and will be glad to receive letters by the late Professor Angelo Heilprin. They may be sent to 21 West Eighty-fifth Street, New York.

DR. PERRY L. HOBBS, professor of chemistry at Western Reserve University, died on April 6, aged fifty-one years.

THE death is announced of Dr. P. N. Lebedew, professor of physics at Moscow, known for his work on the pressure of light.

THE eighteenth meeting of the Association of Teachers of Mathematics in the Middle States and Maryland, was held at Syracuse University on April 6, under the presidency of Professor I. J. Schwatt, of the University of Pennsylvania.

THE eleventh annual meeting of the North Carolina Academy of Science will be held at

the University of North Carolina, Chapel Hill, on Friday and Saturday, April 26 and 27. Dr. H. V. Wilson is president and Dr. E. W. Gudger secretary.

THE Philosophical Institute of Canterbury, New Zealand, which came into existence on August 30, 1862, will celebrate its jubilee this year. It is proposed to mark the occasion by holding a gathering in Christchurch.

MESSRS. CONSTABLE AND COMPANY announce the publication, beginning in April, of a new quarterly review to be called *Bedrock*. The acting editor is Mr. H. B. Grylls, and there is an editorial committee consisting of Sir Bryam Donkin, Professor E. B. Poulton, Dr. G. Archdall Reid and Professor H. H. Turner.

THE American Museum of Natural History has secured, through the generosity of Mr. J. P. Morgan, Jr., the collections of minerals and meteorites left by the late Stratford C. H. Bailey, of Oscawana-on-Hudson. Mr. Bailey had been an indefatigable collector for many years and had assembled representatives of nearly three hundred falls and finds of meteorites, at least twenty-one of which are new to the museum's already great foyer collection.

EXTENSIVE infection of the San José scale has been discovered on trees in the southern part of Wisconsin by Professor J. G. Sanders, of the University of Wisconsin. Professor Sanders, who is also state nursery inspector, reports that steps are being taken to control the pest and prevent its spreading beyond the area affected already.

THE return of the *Terra Nova* brings from the British Antarctic Expedition news of importance, if not as exciting as that from Amundsen. Captain Scott, who was nearing the South Pole at the latest report, remains another year to complete his scientific work, which should be a valuable contribution to polar knowledge. The magnetic, meteorological and biological observations will form welcome additions to those of previous explorers. Those in geology will probably prove to be of primary value. Near Granite Harbor have been discovered marble, topaz, fossils (probably Crustacean it is said), and coal of

economic value. Two species of wingless insects were found in large numbers, and are an unexpected addition to Antarctic fauna. Scientific men will await with interest the detailed report on the fossils, with their reference to, or connection with, the Antarctic specimens from Seymour and other islands to the east of Palmer Land. It will be recalled that Larsen, in 1892 and 1893, brought from Seymour Island, petrified wood and mollusca. In 1902 Professor Otto Nordenskiöld very greatly increased knowledge along these lines. His collections from Seymour, Snow Hill and Cockburn Islands were rich in types of the Jurassic system. Among fossils discovered by him were beeches, cycads, ferns, firs, pines ammonites, etc., and of giant penguins, seven feet tall, considerably larger than the emperor penguin of to-day.

THE *Carnegie*, in command of W. J. Peters, arrived at Manila early in February and is now *en route* to Suva, Fiji Islands. From thence she will proceed to San Diego, California, instead of Acapulco, Mexico, as originally announced. Besides Mr. Peters, the present scientific personnel consists of Dr. H. M. W. Edmonds and Messrs. H. D. Frary and H. F. Johnston. Dr. N. E. Dorsey, Ph.D. (Hopkins, '97), has resigned his position as associate physicist in the United States Bureau of Standards, having been appointed research associate in the department of terrestrial magnetism of the Carnegie Institution of Washington. He will have charge of special experimental and theoretical work, in which he will be assisted by Dr. R. H. Galt. Mr. E. Kidson continues the general magnetic survey of Australia. The following have been appointed magnetic observers: D. W. Berký, for work in northwest Africa with Mr. W. H. Sligh; Donald Mackenzie and H. R. Schmitt, members of Mr. J. P. Ault's party in Peru, Bolivia, Paraguay and Uruguay; C. W. Hewlett for ocean observational work aboard the *Carnegie*, beginning at San Diego, and A. D. Power. Professor H. D. Harradon, A.B. (Bates, '06), has been appointed translator and librarian.

THE University of the Philippines and the Bureau of Science will combine this year to inaugurate a marine biological survey of the Philippines. The party to take the field will be composed of Mr. Alvin Seale, chief of the division of fisheries, Bureau of Science, Dr. Lawrence E. Griffin, associate professor of zoology, University of the Philippines, Dr. Reinhart P. Cowles, assistant professor of zoology, Mr. Lawrence D. Wharton and Mr. S. F. Light, instructors in zoology, and three Filipino assistants. The station this year will be at Puerto Galera, a small harbor on the northern coast of Mindoro, where marine life is extremely abundant and the facilities for collecting observations are unusually fine. The party will be in the field about three months.

A STATION for instruction and research in biology will be maintained by the University of Michigan, for the fourth season, as a part of its regular summer session during the eight weeks from July 2 to August 23 inclusive, 1912. The station will be located near the Bogardus Engineering Camp of the university on a tract of about 1,666 acres of land owned by the university and stretching from Douglas Lake to Burt Lake in Cheboygan County, Michigan, 17 miles south of the Straits of Mackinac. This region, diversified by hills and valleys, was formerly covered by forests of hardwoods and conifers. Small tracts of the former still remain. It contains many lakes of clear water, unsurpassed in the state for size, depth and beauty of setting. The elevation of the camp, between one and two hundred feet above Lake Michigan, insures cool nights. The staff of instructors includes Professors Jacob Reighard, Frank Smith and Henry Allen Gleason, and Drs. A. F. Shull and R. M. Harper.

THE ninth annual session of the Puget Sound Marine Station will convene at Friday Harbor, Washington, on June 24, and will continue for a period of six weeks. The plant has been considerably augmented so as to provide facilities for an increase in attendance over the session of 1911, when nearly one

hundred persons were present at the station. The courses to be offered are as follows: Algology, H. B. Humphrey, Washington State College; Systematic botany, A. R. Sweetser, University of Oregon; Elementary zoology, W. A. Redenbaugh, Seattle High Schools; General ecology, H. S. Brode, Whitman College; Embryology of invertebrates, W. J. Baumgartner, University of Kansas; Ichthyology, E. V. Smith, University of Washington; Advanced ecology, Trevor Kincaid, University of Washington; Plankton, John F. Bovard, University of Oregon. Facilities will also be offered for research work along botanical and zoological lines. The systematic survey of the local fauna which has been in progress for several seasons will be continued by further deep water exploration. The director of the station, Professor Trevor Kincaid, of the University of Washington, will be glad to give more extended information to persons planning to visit the laboratory.

UNIVERSITY AND EDUCATIONAL NEWS

THE Maryland legislature has voted the sum of \$600,000, to be followed by an annual grant of \$50,000 to establish a school of technology in connection with the Johns Hopkins University.

A GIFT of \$300,000 to Princeton University from Mr. William Cooper Proctor, of Cincinnati, for the endowment of the Charlotte Elizabeth Proctor fellowships in the graduate school is announced. Mr. Proctor, who had previously given \$500,000 to the graduate school, was elected a life member of the board of trustees to succeed Mr. Cleveland H. Dodge, of New York, who resigned last autumn.

MR. E. C. CONVERSE, of New York City, has given \$125,000 to Harvard University for the establishment of an Edmund Cogswell Converse professorship of banking in the graduate school of business administration. The university has also received \$28,000 from Mrs. J. K. Paine, for the establishment of the John Knowles Paine fellowship in music.

THE University of Chicago has established a system of retiring allowances for professors